

Instrument	SATHED
Serial number	0229
Sensor type	Es: Surface Downwelling

Time	Oct 13, 2023 1:38:22 PM
Software	1.9.23
Operator	mswenson
Project	

Comment:	Final Calibration,
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Calibration Parameters

Number of channels	137
Start wavelength	350.24
End wavelength	798.7
Output channels	2 -> 138
Display channels	2 -> 138
Max counts	65535.0
Distance	50.0
Type override	No
Immersion values	

Data Collection

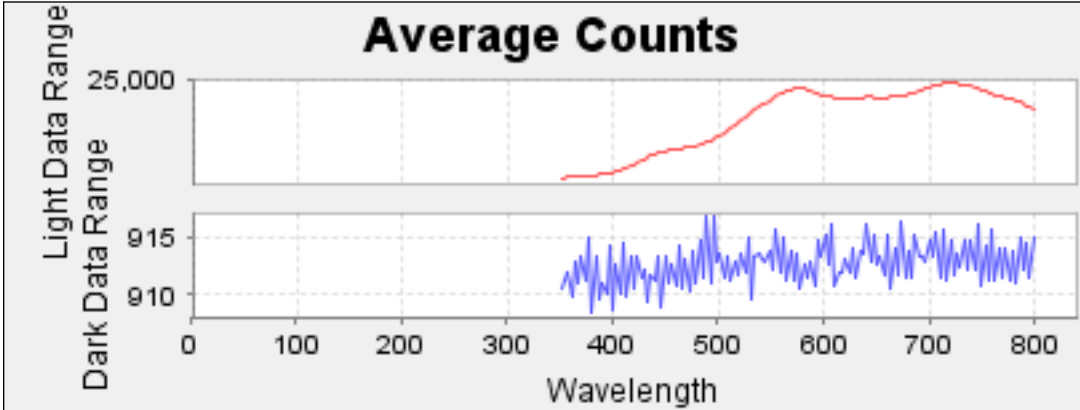
Number dark frames	107
Number light frames	536
Corrupt frames	0
Lost bytes	9002
Capped darks	No

Input Files

TDF template	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 2\CalK\HSE0229K.cal
Light data file	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 3\CalL\clAj229f-0229_2023-10-13_09-57-57_raw.bin
Dark data file	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 3\CalL\clAj229f-0229_2023-10-13_09-57-57_raw.bin
Lamp data file	P:\CALIB\Radiometers\Lamps\F1740\F1740.FIT
Target data file	No Target Used

Output Files

Light cal file	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 3\CalL\HED0229L.cal
Dark cal file	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 3\CalL\HSE0229L.cal
Package file	P:\CALIB\Radiometers\HyperOCR\In_Air_Irradiance_HSE\hse229\Cal 3\CalL\HSE_0229_12.xml



— Average Light Counts (clAj229f-0229_2023-10-13_09-57-57_raw.bin)

— Average Dark Counts (clAj229f-0229_2023-10-13_09-57-57_raw.bin)

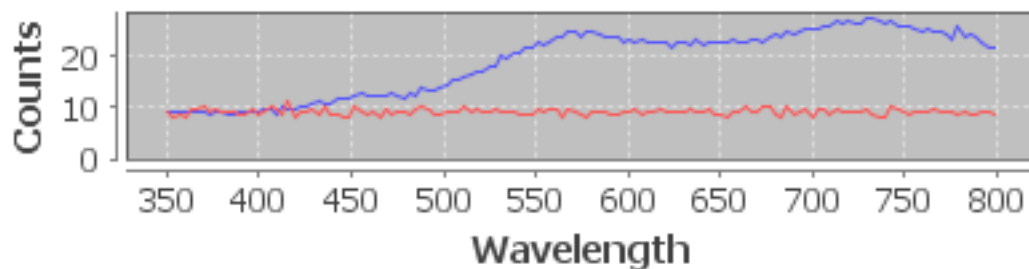
Pass Criteria

Dark range less than 50 counts, light counts resembles solar spectrum

Dark Range

8.3

Noise



✓ Average Dark Noise (clAj229f-0229_2023-10-13_09-57-57_raw.bin)

✓ Average Light Noise (clAj229f-0229_2023-10-13_09-57-57_raw.bin)

Pass Criteria

Dark noise delta less than 12, light noise delta less than 35

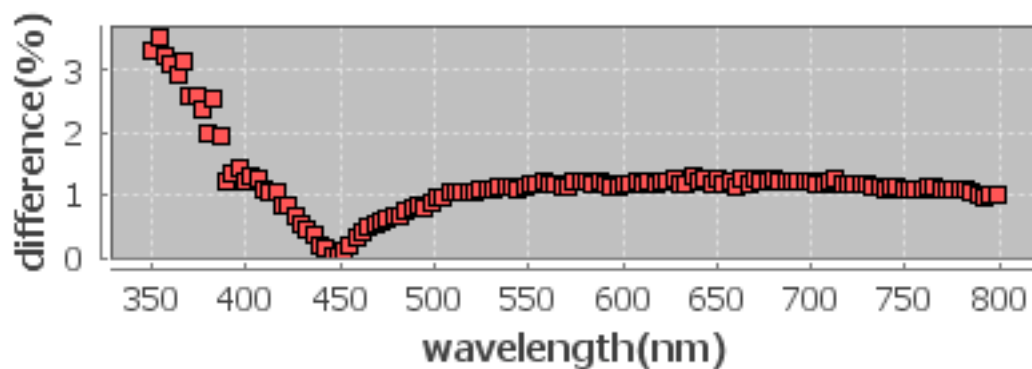
Dark Range Delta

3.4

Light Range Delta

18.7

Difference of Calibration Coefficients in percent



■ $(\text{HSE0229K.cal}/\text{HSE0229L.cal}-1)*100$

Pass Criteria

Percent difference less than 10%

% Difference

1.18